

FIG. 1

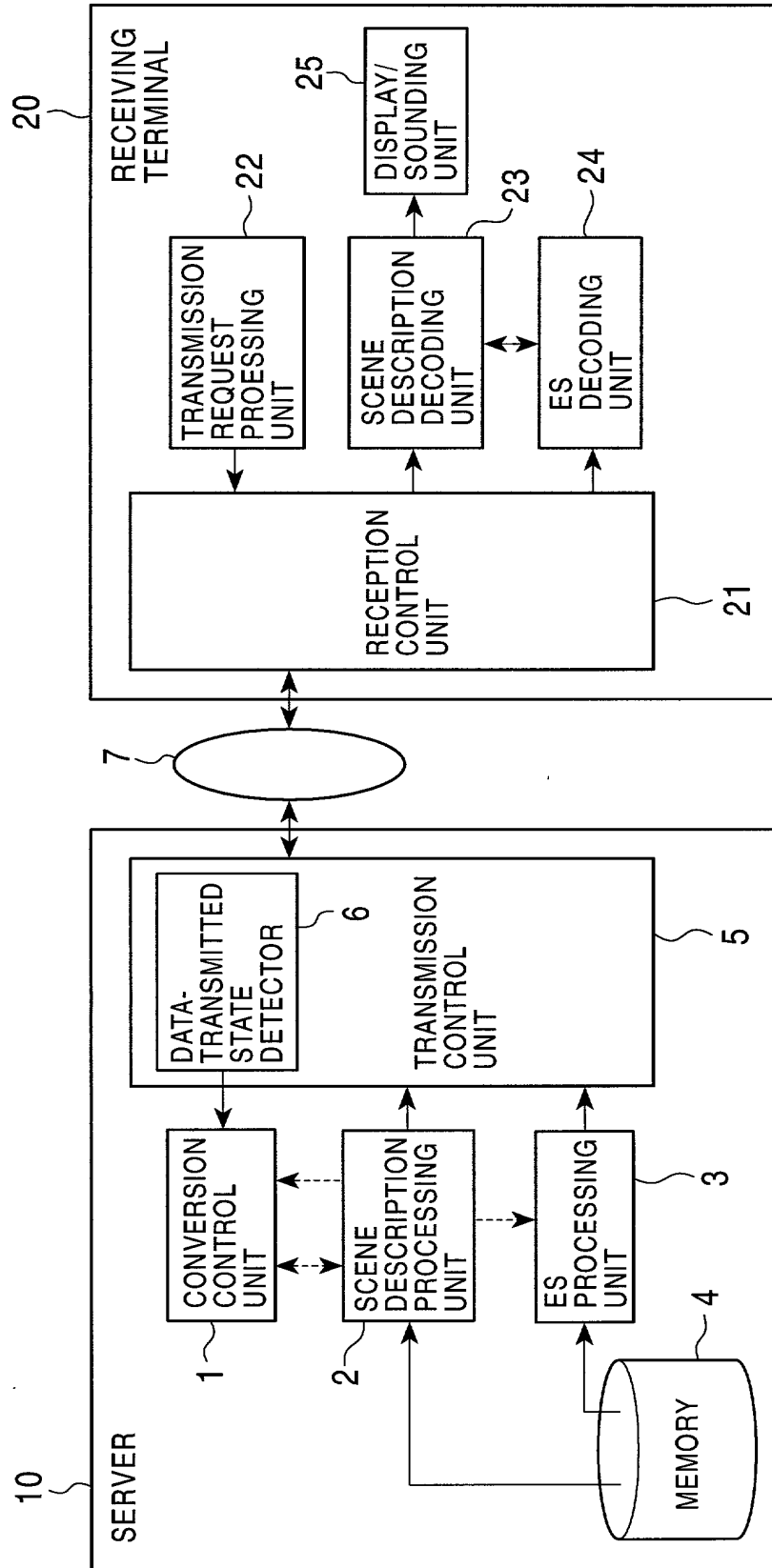


FIG. 2

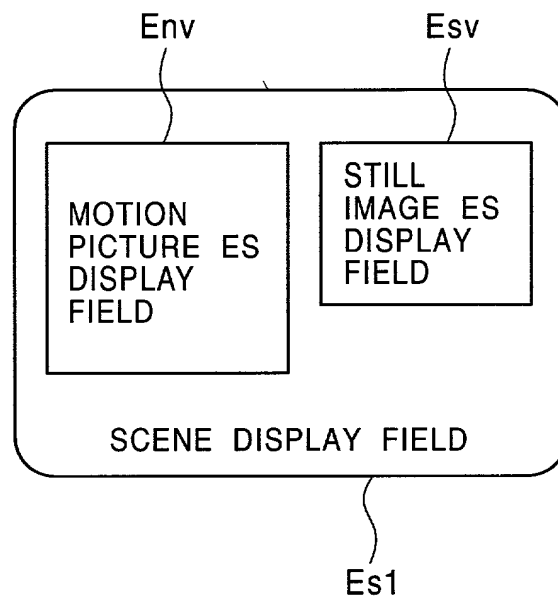


FIG. 3

Group{	: GROUPING OF NODES THAT CONSTITUTE SCENE
children[: START OF DESCRIBING CHILD NODES
Transform{	: GROUPING OF NODES RELEVANT TO COORDINATE TRANSFORMATION
<u>translation -100</u>	: POSITION OF ORIGIN ON LOCAL COORDINATE PLANE #500
<u>scale 431</u>	: SCALING OF LOCAL COORDINATE PLANE #501
children[
Shape{	: OBJECT TO BE DISPLAYED
geometry Box{}	: CUBE
appearance Appearance{	: PROPERTIES OF SURFACE OF OBJECT
texture MovieTexture{url 3}	: MOTION PICTURE PROVIDING TEXTURE
}	
}	
}	
}	
Transform{	
<u>translation 4.520</u>	: POSITION OF ORIGIN ON LOCAL COORDINATE PLANE #502
<u>scale 111</u>	: SCALING OF LOCAL COORDINATE PLANE #503
children[
Shape{	
geometry Box{}	
appearance Appearance{	
texture MovieTexture{url 4}	
}	
}	
}	
}	
}	
}	

FIG. 4

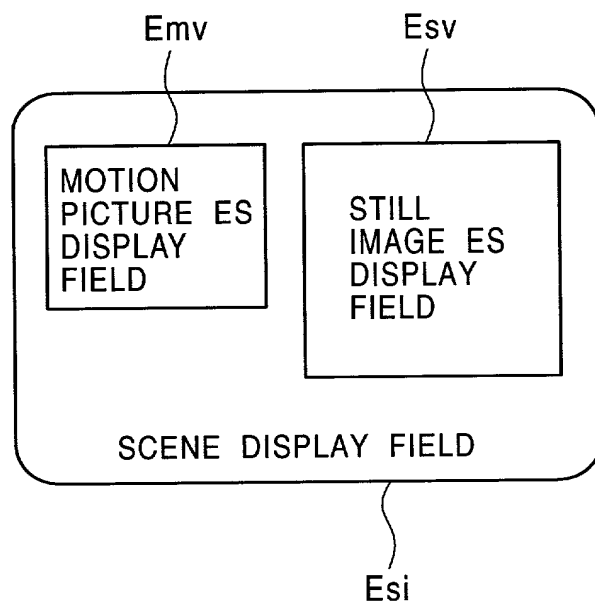


FIG. 5

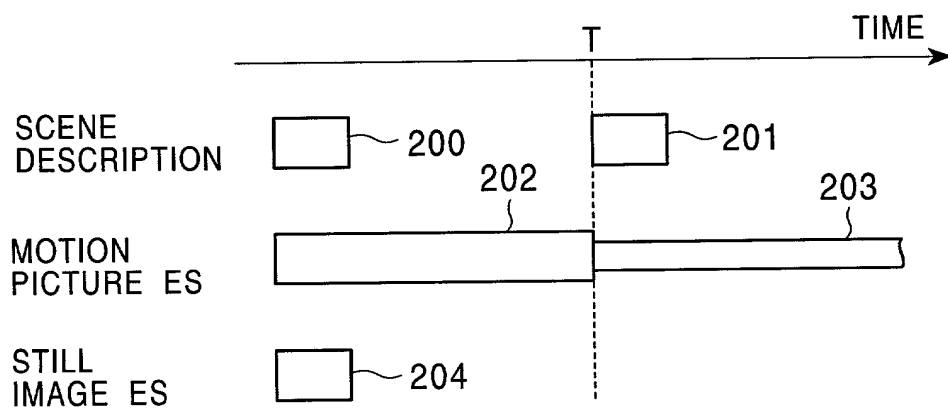


FIG. 6

```

Group{                                     : GROUPING OF NODES THAT
  children[                               : CONSTITUTE SCENE
    Transform{                           : START OF DESCRIBING CHILD NODES
      translation -4.520                 : GROUPING OF NODES RELEVANT
      scale 10.751                       : TO COORDINATE TRANSFORMATION
      children[                         : POSITION OF ORIGIN ON LOCAL
        Shape{                          : COORDINATE PLANE #600
          geometry Box{}                : SCALING OF LOCAL
          appearance Appearance{        : COORDINATE PLANE #601
            texture MovieTexture{url 3} : OBJECT TO BE DISPLAYED
          }                             : CUBE
        }                             : PROPERTIES OF SURFACE OF
      }                               : OBJECT
    }                               : MOTION PICTURE PROVIDING
  }                               : TEXTURE
}

Transform{
  translation 100                       : POSITION OF ORIGIN ON LOCAL
  scale 441                             : COORDINATE PLANE #602
  children[                             : SCALING OF LOCAL
    Shape{                             : COORDINATE PLANE #603
      geometry Box{}
      appearance Appearance{
        texture MovieTexture{url 4}
      }
    }
  ]
}

```

FIG. 7

```

ObjectDescriptor{
    ODid=3                                : IDENTIFIER CORRESPONDING TO
                                          : URL IN BIFS
    ES_Descriptor{                        : ES INFORMATION DESCRIPTOR
        ES_ID=10                          : ES NUMBER ID
        ...
        DecoderConfigDescriptor{          : ES DECODING INFORMATION
                                          : DESCRIPTOR
            ...
            bufferSizeDB=4000             : ES DECODING BUFFER SIZE [Byte]
            maxBitRate=1000000           : MAXIMUM BIT RATE FOR ES [bps]
            avgBitRate=1000000           : AVERAGE BIT RATE FOR ES [bps]
            ...
        }
        ...
    }
}

ObjectDescriptor{
    ODid=4
    ES_Descriptor{
        ES_ID=11
        ...
        DecoderConfigDescriptor{
            ...
            bufferSizeDB=1000
            maxBitRate=240000
            avgBitRate=240000
            ...
        }
        ...
    }
}

```

FIG. 8

```

ObjectDescriptor{
    ODid=3                                : IDENTIFIER CORRESPONDING TO
                                          : URL IN BIFS
    ES_Descriptor{                        : ES INFORMATION DESCRIPTOR
        ES_ID=10                          : ES NUMBER ID
        ...
        DecoderConfigDescriptor{          : ES DECODING INFORMATION
                                          : DESCRIPTOR
            ...
            bufferSizeDB=2000             : ES DECODING BUFFER SIZE [Byte]
            maxBitRate=500000            : MAXIMUM BIT RATE FOR ES [bps]
            avgBitRate=500000           : AVERAGE BIT RATE FOR ES [bps]
            ...
        }
        ...
    }
}

ObjectDescriptor{
    ODid=4
    ES_Descriptor{
        ES_ID=11
        ...
        DecoderConfigDescriptor{
            ...
            bufferSizeDB=1000
            maxBitRate=240000
            avgBitRate=240000
            ...
        }
        ...
    }
}

```

FIG. 9

```

Group{
  children[
    Transform{
      translation 000           : POSITION OF ORIGIN ON LOCAL
                                COORDINATE PLANE #902
      scale 4.5 4.51          : SCALING OF LOCAL
                                COORDINATE PLANE #903
      children[
        Shape{
          geometry Box{
            appearance Appearance{
              texture MovieTexture{url 4}
            }
          }
        ]
      ]
    }
  ]
}

```

FIG. 10

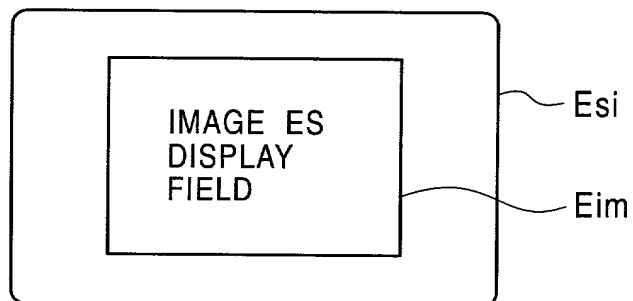


FIG. 11

```

Group{
  children[
    Transform{
      children[
        Shape{
          geometry IndexedFaceSet{
            coord Coordinate{
              point[
                0.0, 0.0, 0.0,
                ...
                1.0, -1.0, 0.0]
              }
            coordIndex [
              0, 1, 3, -1,
              ...
              109, 110, 111, -1
            ]
          }
        }
      ]
    }
  ]
}

```

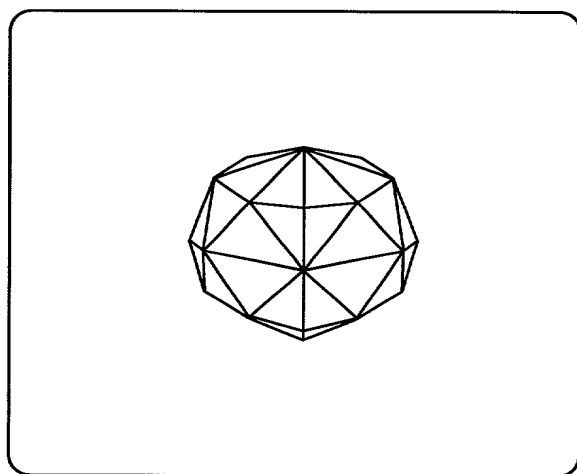
: OBJECT TO BE DISPLAYED

: POLYGON

: COORDINATES REPRESENTING APEX

: DESIGNATION OF COORDINATES REPRESENTING APEX

FIG. 12



```

Group{
  children[
    Transform{
      children[
        Shape{                                : OBJECT TO BE DISPLAYED
          geometry Sphere{}                  : SPHERE
        }
      ]
    }
  ]
}

```

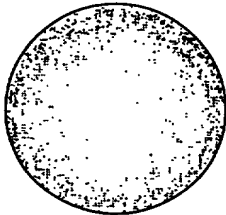


FIG. 15

```

Group{ children[
  Transform{
    translation-300
    children[
      Shape{
        geometry Sphere{}           : SPHERE
      }
    ]
  }
  Transform{
    translation 0 0 0
    children[
      Shape{
        geometry Box{}              : CUBE
      }
    ]
  }
  Transform{
    translation 0 -3 0
    children[
      Shape{
        geometry Cone{}             : CONE
      }
    ]
  }
  Transform{
    translation 3 0 0
    children[
      Shape{
        geometry Cylinder{}         : CYLINDER
      }
    ]
  }
}]

```

FIG. 16

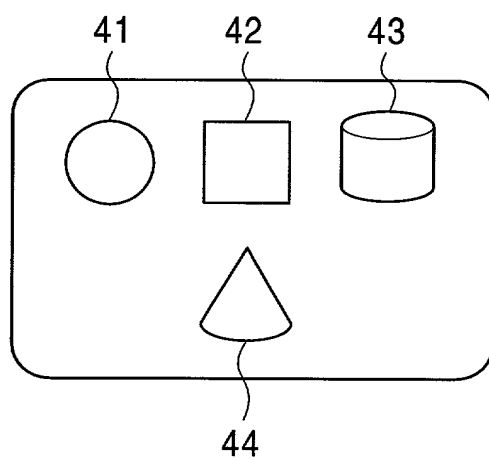


FIG. 17

```

DEF 1 Group{ children[
  Transform{
    translation -300
    children[
      Shape{
        geometry Sphere{}      : SPHERE
      }
    ]
  }
]}

```

~ AU1

```

NodeInsertion command to 1's children
Transform{
  children[
    Shape{
      geometry Box{}           : CUBE
    }
  ]
}

```

~ AU2

```

NodeInsertion command to 1's children
Transform{
  translation 0-30
  children[
    Shape{
      geometry Cone{}          : CONE
    }
  ]
}

```

~ AU3

```

NodeInsertion command to 1's children
Transform{
  translation 300
  children[
    Shape{
      geometry Cylinder{}      : CYLINDER
    }
  ]
}

```

~ AU4

FIG. 18

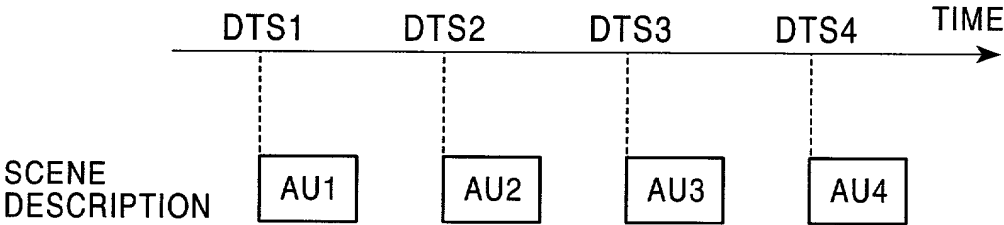


FIG. 19

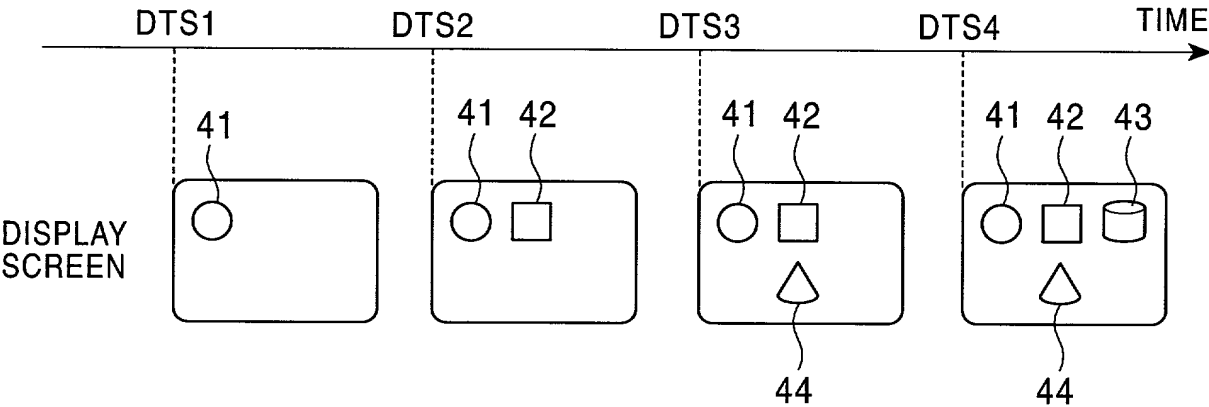


FIG. 20

